# The Commonwealth of Massachusetts

## Division of State Colleges

# STATE COLLEGE
## *at*
# WORCESTER

## *Program of Continuing Studies*

## FALL, 1967

BEGINNING SEPTEMBER 18, 1967

# FACULTY

CORNELIUS S. DONOGHUE, A.B., A.M., Director of Continuing Studies
JOHN F. EAGER, B.S., Ed.M., Associate Director of Continuing Studies
ELIZABETH R. BARLOW, B.S., Ed.M., Ed.D.
WALTER BUSAM, A.B., A.M. Ph.D.
JOHN D. COUGHLAN, A.B., Ed.M.
HAROLD L. CHAPMAN, B.S., Ed., M.S.
PAUL DAVIS, B.S., Ed.M.
MARY T. DOLPHIN, A.B., Ed.M.
JOHN DOWLING, B.S., Ed.M.
FRANCIS T. DYSON, B.S., A.M.
ALFRED F. EDDY, A.B., A.M.
PAUL J. EDMUNDS, A.B., A.M., Ph.D.
LEONARD F. FARREY, B.S., Ed.M.
ROBERT W. GOSS, B.S., Ed.M., A.M., Ed.D.
RUTH GRIFFITHS, B.S., M.A., Ed.D.
MARY T. HAYES, B.S., Ed.M., Ed.D.
PAUL A. HOLLE, A.B., M.S., Ph.D.
FRANCIS L. JONES, A.B., A.M., Ph.D.
GEORGE T. JOSEPH, B. S., Ed.M.
WILLIAM D. JOYCE, A.B., M.S.
ABRAM KAMINSKY, B.M.E., M.M.E.
RAYMOND LESLIE, B.S., Ed.M.
WILLIAM K. MASTERSON, A.B., A.M., M.S.
PAUL J. McCARRON, B.S., Ed.M.
BERNARD L. McGOUGH, A.B., Ed.M., M.S.
MELVIN MERKEN, B.S., A.M., Ed.D.
RAYMOND MORROW, B.S., Ed.M.
KATHRYN R. O'DONNELL, B.S., A.M.
J. FRANCIS O'MARA, A.B., Ed.M., A.M., Ph.D.
PAUL F. O'NEIL, A.B., Ed.M.
ROBERT F. PERRY, A.B., A.M., Ph.D.
VINCENT PICCOLO, A.B., M.S.
JOSEPH W. RIORDAN, A.B., A.M., Ed.M., Ph.D.
EVELYN ROBINSON, A.B., Ed.M., M.S.
BRUCE RUSSELL, A.B., M.S.
JOSEPH P. SCANNELL, B.S., Ed.M.
JOSEPH A. SHEA, A.B., A.M., Ph.D.
RUTH V. SOMERS, A.B., A.M.
G. FLINT TAYLOR, A.B., Ed.M., Ph.D.
PETER TRAINOR, B. S., Ed.M.
FRANCIS G. WALETT, B.S., A.M., Ph.D.
C. YUAN, A.B., A.M., A.M. (History)

## GENERAL INFORMATION

The courses announced in this bulletin are offered by the Division of State Colleges in cooperation with the State College at Worcester. The Division of State Colleges reserves the right to cancel any course which does not have a minimum of 20 enrollments.

Both graduate and undergraduate courses are offered; Courses carrying undergraduate credit only are numbered in the 7- series; courses carrying both graduate and undergraduate credit are numbered in the 8- series; courses carrying graduate credit only are numbered in the 9- series.

## REGISTRATION

Registration should be made on September 11th through the 15th from 8:30 A.M. to 5:00 P.M. or on the day of the first class at the Worcester State College Graduate Office, Room S-112 Science-Laboratory Building.

To facilitate course selection, provisions have been made for registration in advance by mail. The registration blank found on the last page should be forwarded to the college immediately. ALL FEES, REGISTRATION AND TUITION, MUST BE PAID AT THE TIME OF REGISTRATION. NO EXCEPTION TO THIS REGULATION WILL BE CONSIDERED. Fees must be paid by check or money order made payable to the State College at Worcester. Cash will not be accepted. Assignment to classes which are or might be sectioned, or assignment to classes with maximum registrations, will be made in the order of completed registrations.

1. The Tuition fee for residents of Massachusetts is $18.00 per semester hours of credit; for non-residents $25.00 per semester hour of credit; for auditors, $11.00 per semester hour.
2. LATE REGISTRATION FEE—(Required for all, including veterans, after the first class meeting) $2.00.
3. Change of course fee—Payable for any change of registration after the first class meeting except when a course is cancelled, $2.00.
4. All students in each semester, including veterans must pay a $2.50 registration fee per semester when making out the course registration forms. UNDER NO CIRCUMSTANCES WILL ANY OF THE REGISTRATION FEES BE RETURNED.

## VETERANS

Any resident of Massachusetts who has served in any branch of the armed services for at least 90 days, one of which must have been served either between September 16, 1940, and December 31, 1946, or between June 25, 1950 and January 31, 1955, and who has a discharge other than dishonorable may enroll without charge for instruction in any course here offered within the established limitation of 120 semester hours. To establish his eligibility the veteran must present his discharge (or photo-

static copy) or certificate of satisfactory service in the case of officers, together with proof of residence in advance of the opening date of class meeting.

All veterans who come under the new G.I. Bill must pay their tuition to the college. These veterans who are treated as non-veterans for registration purposes, are to be reimbursed by the Veterans' Administration. *NOTE: If this is your first enrollment, you must contact your Veterans' Administration Office for information on reimbursement. If you have been enrolled in courses at Worcester State College, you, upon completed registration here, will be reenrolled by the Office of Continuing Studies for the veterans' reimbursement.

## CREDIT

Regulations and requirements for degree study may be obtained at the Office of the Director of Continuing Studies, State College at Worcester. It is urgently recommended that the guidance and advice of the Director and your faculty advisor in your Area of Concentration, wherein you must have 5 approved courses—effective September 1966—be sought and faithfully followed in planning a program of study. For teachers in service, a maximum of six semester hours of credit per semester may be credited toward a degree.

The GRADUATE RECORD EXAMINATION, REQUIRED for all Graduate degree students will be conducted at Worcester State College on Saturday, October 18, and December 9, 1967. The Bulletin of Information and Application Blanks can be secured at the Director's Office, Room S-112, Laboratory-Science Building, State College at Worcester. Registration through Educational Testing Service, Princeton, New Jersey should be completed two weeks prior to the test.

The degree of Master of Education is awarded at the State Colleges at Boston, Bridgewater, (including Hyannis Summer Session), Fitchburg, Framingham, North Adams, Salem, Westfield, and Worcester. Graduate courses in partial fulfillment of the requirements for this degree may be offered from time to time in the other State Colleges and the Massachusetts College of Art.

Students must park in the Student Parking Areas behind the Science-Laboratory Building or the side and rear of the Gymnasium-Library Building.

The Comprehensive Examination will be conducted on Friday, November 17, 1967 at 4:00 P.M.

Post Ed.M. students must receive the honor grades of A or B for credit.

## SCHEDULE OF CLASSES

Courses carrying undergraduate credit only are numbered in the 7-series; courses carrying both undergraduate and graduate credit are numbered in the 8- series; and courses carrying graduate credit only are numbered in the 9- series. Assistance in selection and registering in all courses is available in Room S-112 Science-Laboratory Building the W.S.C. Office, Phone Worcester 791-1405 or 756-5121.

ALL COURSES CARRY THREE SEMESTER HOURS OF CREDIT

MONDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 18, 1967

| *No.* | *Course Title* | *Instructor* | *Room* |
|---|---|---|---|
| F9-51 | Research in Education, Section A | Alfred F. Eddy | G-22 |
| F9-65 | Occupational Information—Guidance V | Leonard F. Farrey | S-212 |
| F8-97 | Computer Programming for the Educator | John Dowling | 104 |
| F8-153 | Books & Related Materials for Jr. & Sr. High Schools | Bernard L. McGough | G-23 |
| F9-650 | New Viewpoints in American History | Francis G. Walett | 315 |
| F9-955 | Chordate Morphogenesis | Bruce Russell | S-132 |

TUESDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 19, 1967

| | | | |
|---|---|---|---|
| F8-70 | Introduction to Audio-Visual Methods & Materials | Paul Davis | 110 |
| F8-87 | Supervision in Today's Schools | J. Francis O'Mara | S-225 |
| F8-491 | Selected Problems of our Local & State Governments | Robert W. Goss | S-304 |
| F8-750 | Educational Psychology | Joseph C. Lonergan | S-205 |
| F8-755 | Studies in Child Growth & Development | Mary T. Hayes | S-217 |
| F9-777 | Advance Philosophy of Education | Joseph W. Riordan | S-212 |

WEDNESDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 20, 1967

| | | | |
|---|---|---|---|
| F8-56 | New Trends in Teaching of Reading | Elizabeth R. Barlow | 306 |
| F8-64 | Tests & Measurements | Ruth V. Somers | S-217 |
| F8-74 | Industrial Arts for Special Class & Elementary Schools | Raymond Leslie | 110 |
| F8-291 | Principles of Coaching | Francis T. Dyson | G-26 |
| F8-443 | Geography of Asia (excluding U.S.S.R.) | Robert J. Perry | 203 |
| F8-577 | Modern Geometry | Evelyn Robinson | S-125 |
| F8-775 | Introduction to Philosophical Foundations of Education | William K. Masterson | S-212 |

THURSDAYS, 4:30-7:15 P.M., BEGINNING SEPTEMBER 21, 1967

| | | | |
|---|---|---|---|
| F8-61 | Principles & Practices in Guidance-Guidance 1 | Paul J. McCarron | S-228 |
| F8-92 | Improvement of Instruction | Ruth Griffiths | S-125 |
| F8-179 | Modern Poetry | Kathryn R. O'Donnell | G-23 |
| F8-260 | Trends in Art Education | Mary T. Dolphin | Art Rm |
| F9-753 | Advance Psychology of Education, Section A | Joseph P. Scannell | S-227 |
| F8-871 | Chemical Education Material Study | Melvin Merken | S-301 |

## EVENING CLASSES

TUESDAYS, 7:00-9:45 P.M., BEGINNING SEPTEMBER 19, 1967

| | | | |
|---|---|---|---|
| F9-62 | Organization & Administration of Guidance (Guid 11) | G. Flint Taylor | S-228 |
| F8-155 | Survey of English Language as seen through the English Literature | Paul J. Edmunds | S-231 |
| F8-277 | Organization & Administration of School Library | William D. Joyce | G-23 |
| F8-481 | Role of School Adjustment Counselors | John D. Coughlan | S-226 |
| F8-952 | Biological Sciences for the Educator | Paul A. Holle | S-132 |

WEDNESDAYS, 7:00-9:45 P.M., BEGINNING SEPTEMBER 20, 1967

| | | | |
|---|---|---|---|
| F9-58 | Diagnosis of Reading Difficulties | Peter Trainor | S-126 |
| F9-78 | Workshop in Adult Basic Education | Raymond Morrow | S-231 |
| F8-490 | Diplomatic History of United States, 1900 —date | Francis L. Jones | S-127 |
| F9-752 | Advance Psychology of Education, Section B | Joseph A. Shea | G-23 |
| F8-860 | Astronomy 1 | Harold Chapman | 105 |

THURSDAYS, 7:00-9:45 P.M., BEGINNING SEPTEMBER 21, 1967

| | | | |
|---|---|---|---|
| F9-52 | Research in Education, Section B | Walter Busam | G-26 |
| F9-81 | Teaching Enriched Language Arts | Paul F. O'Neil | S-212 |
| F9-88 | Organization & Administration of Elementary School Adm 111 | George T. Joseph | S-211 |
| F8-250 | History & Literature of Music | Abram Kaminsky | S-123 |
| F8-653 | The History of "Stuart" Ireland | Cheng Yuan | S-127 |

## COURSE DESCRIPTIONS

### F9-51 Research in Education, Section A

The course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid the graduate student in the preparation and understanding of research reports. Major areas of emphasis will include the nature of and criteria for evaluating research, library techniques and resources, selection and documentation, organization and format of a report, and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study.

Prerequisite—A Bachelor's degree from an accredited college.

Alfred F. Eddy — Monday 4:30-7:15 p.m.
3 Semester hours — Beginning September 18, 1967

### F9-65 Occupational Information (Guidance V)

The course is organized to help develop competencies in the following areas of occupational information; classification and description of jobs and industries, occupational trends in relation to socio-economic changes, collecting information, filing information and evaluating information about occupations and training. Emphasis will be placed upon the using of Occupational Information, with groups and with individuals, in the school system.

Leonard F. Farrey — Monday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 18, 1967

### F8-97 Computer Programming for Educational Purposes

In the course, the student will learn to program a computer and apply this skill to programming administrative educational functions such as scheduling, report cards, purchasing, accounts receivable and payable, test analysis, student record keeping etc.

John Dowling — Monday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 18, 1967

### F8-153 Books & Related Materials for Junior & Senior High Schools

This course is designed to provide teachers and librarians with a knowledge of the fundamental principles in evaluating and selecting books and related materials for young adults, (grades 7-12), junior and senior high schools, handling controversial book problems, the sources for non-book materials. Emphasis will be placed on relating selection practices to the educational program of the modern secondary school. This course will satisfy, in part, the requirements for the public school librarian's certificate.

Bernard L. McGough — Monday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 18, 1967

### F8-650 New Viewpoints in American History

This course is designed to acquaint teachers and students with scholarly developments in recent years in the writing of American history. Topics from the Colonial period to the Twentieth Century will be studied, especially those writings that have significantly changed older viewpoints.

Francis G. Walett — Monday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 18, 1967

### F9-955 Chordate Morphogenesis

This course will consider the history of embryology and the ontogeny of selected pre-chordate and chordate embryos. It will be directed towards those who wish to continue and/or concentrate in the biological sciences. The principles of cellular, tissue, and organ differentiation and organization will be emphasized - appropriate consideration will be given to gametogenesis, fertilization, and development of extra-embryonic membranes. Detailed consideration will be given in the laboratory to protochordate, frog, chick, and pig developmental stages.

One 2-hour lecture and one 1½ hour laboratory period per week. 3 credits—acceptable for credit in master's program with a concentration in biology.

Bruce Russell — Monday, 4:30-8:00 p.m.
3 Semester hours — Beginning September 18, 1967

### F8-70 Introduction to Audio-Visual Methods and Materials

This course is an introductory course for the classroom teacher in the utilization of all types of audio-visual materials for improving instruction. By means of lecture, discussion, and demonstration students will learn the criteria in selection of materials, planning for their use, evaluation of methods, advantages and limitations of various materials, and implications of research. Each class member learns the operation of mechanical equipment as well as sources of audio-visual materials for the various curricula.

Paul Davis — Tuesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 18, 1967

### F8-87 Supervision in Today's Schools

This course is designed as an introductory course in supervision for teachers, school administrators, and supervisors at both the elementary and secondary school levels. Significant topics included in the course are: concepts of supervision; principles of supervision; organization for supervision; group process; techniques of supervision; and the evaluation and improvement of instruction, curriculum, and the supervisory program. Opportunities will be provided for concentrated study and application of the materials of the course to elementary, secondary, or special subject work. This course, or its equivalent, is prerequisite for all advanced courses in supervision.

J. Francis O'Mara — Tuesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 19, 1967

### F8-491 Selected Problems of Local and State Governments

Students will study and analyze some of the basic problems of local and state governments. Among the topics to be considered are municipal charters (City and Town "Plans"), the increase of metropolitanism, the suburban movement, tax and fiscal policy, urban renewal, etc. The relationships of each of the local governments within the Commonwealth to each other and the relationships of the Commonwealth to the federal government will be stressed. The stress will be placed on the practical approach in the solution of municipal problems.

Robert W. Goss — Tuesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 19, 1967

### F8-750 Educational Psychology

This course covers the theoretical aspects of psychology for the classroom teacher. It includes a systematic analysis of the major schools of psychology and a study of the effects of heredity and environment. Reading in the following areas will be required; results of research on growth and development, theories of intelligence, concepts in measurement and evaluation, individual differences in capacity and achievement, and learning theory.

This course is the equivalency to undergraduate credits in General Psychology and Educational Psychology required for F9-752 or F9-753.

Joseph C. Lonergan — Tuesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 19, 1967

### F8-755 Studies in Child Psychology

This course will include study of the physiological and psychological characteristics of young children at various age levels. Evaluation will be made of the effects of heredity and environmental influences on physical, mental, social, and emotional growth. The implications of individual growth and development for effective teaching and learning will be emphasized.

Mary T. Hayes — Tuesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 19, 1967

### F9-777 Advanced Philosophy of Education

This course has the two-fold purpose of (1) studying and evaluating the contributions made by outstanding philosopher-educators both of the past but especially of the modern eras, and (2) analyzing the basic philosophical issues and problems in education and society and the alternatives posed by the different philosophical systems and assumptions. The student is expected to read and analyze the original contributions of the major educational philosophers in order to determine to what extent a synthesis of viewpoint may be achieved. Prerequisites: Undergraduate credits in both Philosophy and in Philosophy of Education or equivalency.

Joseph W. Riordan — Tuesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 19, 1967

### F8-86 New Trends in the Teaching of Reading

This course is designed to cover the function of reading in the modern school program, effective procedures for developing the basic reading skills, practical techniques for improving pupil competence in the reading-study skills of content areas and methods of diagnosing and correcting reading deficiences.
Prerequisite: The Teaching of Reading or permission of instructor.

Elizabeth R. Barlow — Wednesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-64 Tests and Measurements

This course considers the nature of measurement, its purpose and value in the learning situation, and the types of measuring techniques to be employed. Attention is given to the development of certain statistical concepts, facility in the selection and use of measuring instruments, and in the interpretation of the data secured.

Ruth V. Somers — Wednesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-74 Industrial Arts for Special Class and Elementary School

This course offers the special class teacher an opportunity to experiment with the various materials necessary for an adequate industrial arts program. The course also offers the elementary school teacher of the regular classroom opportunity to learn new materials and projects for use in unit work and the activity program. A study will be made of planning, equipping, and operating such a program on a limited school budget.

Raymond Leslie — Wednesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-291 Principles of Coaching

Students in this course will deal with principles, techniques, and psychology of coaching. Teaching techniques involved in competi-

tive athletics at the elementary, junior high, and senior high school levels and basic principles of teaching sports fundamentals will be emphasized. The athletic programs and patterns of coaching of specific sports on various grade levels will be studied, demonstrated, and evaluated in terms of the needs and interests of the students.

Francis T. Dyson — Wednesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-443 Geography of Asia

Asia, the largest of the world's land masses with over seventy-five per cent of the world's people, is undergoing rapid development and change. Because of its size, emphasis will be placed only on the more important regions of conflict. No attempt will be made to analyze and study the continent in its entirety. The Arab-Israeli Dispute, The Middle East Oil Question, The Problem of Southeast Asia are a few of the problems to be discussed in light of their historical and geographical backgrounds.

Robert F. Perry — Wednesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-557 Modern Geometry

This survey-analysis of various geometries such as projective and non-Euclidean geometry, will show how Euclidean Plane geometry is related to many other geometries. An attempt will be made to relate it to as many other mathematic relationships as time will permit.

Evelyn Robinson — Wednesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-775 Introduction to Philosophical Foundations of Education

Students in this course will make an intensive examination and critical evaluation of the major philosophies in Western culture which have given direction and meaning to educational theory and practice in the historical periods, including the Modern Era, in which they exerted major influence.

The course is the equivalency to undergraduate credits in both Philosophy and Philosophy of Education.

William K. Masterson — Wednesday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-61 Principles and Practices in Guidance (Guidance 1)

This is an introductory course designed to provide the student with an understanding of the need, meaning, and scope of guidance services. The principles and practices involved in the following guidance areas will be considered: introduction and philosophy of guidance; understanding the individual and his needs; essential orientation activities for the student; collecting, recording, and

evaluating data; interviewing and counseling; guidance through group activities; placement and follow-up activities; organization and evaluation of guidance. The emphasis of the course will be placed upon the role of the classroom teacher in the guidance program.

NOTE: This course or its equivalent is a prerequisite of advanced courses in guidance.

Paul J. McCarron — Thursday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 21, 1967

### F8-92 The Improvement of Instruction

In this course, a study will be made of procedures for developing growth and strengths in the teaching of school subjects in the elementary and secondary schools. Practical solutions to everyday problems gained from experience will be shared by class members.

Ruth Griffiths — Thursday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 21, 1967

### F8-179 Modern Poetry

A deepening of one's appreciation of both the structure and decoration of poetry should be the result of this penetrating study of Contemporary Poetry. Studies will be centered on recent British and American poetry with special attention being given to the works of Hopkins, Yeats, Arden, Eliot, Jeffers, and Crane. Assigned readings will supplement the lectures.

Kathryn R. O'Donnell — Thursday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 21, 1967

### F8-260 Trends in Art Education

This course will consist of a lecture-workshop in which the most recent methods and materials of art education will be considered. An analysis of techniques for teaching art at the various grade levels will include a variety of experiences with many materials. Specific problems in art such as stimulation, motivation, and evaluation of products for grading will be discussed.

Mary T. Dolphin — Thursday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 21, 1967

### F9-753 Advanced Educational Psychology — Section A

In this course, class-members will study and evaluate the role of those environmental, mental and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes. It includes a systematic analysis of the major schools of psychology with special attention focussed on the contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations.

Prerequisite: 9 sem. hrs. undergraduate credit in General Psychology and Educational Psychology or their equivalency.

Joseph P. Scannell — Thursday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 21, 1967

**F8-871 Chemical Education Material Study (Chem Study)**

The participants in this course will examine CHEM study, one of the most widely-heralded of the new curricula. The CHEM Study textbook, laboratory manual, and films will provide an opportunity for firsthand experience with one of the radically new approaches to teaching not only Chemistry, but science in general. For this reason, teachers at any level who are interested in science should discover much that is valuable in this course.

Melvin Merken — Thursday, 4:30-7:15 p.m.
3 Semester hours — Beginning September 21, 1967

## EVENING COURSES

**F9-62 Problems in Organization and Administration of Guidance (Guidance 11)**

This course will acquaint guidance counselors and supervisors in the elementary and secondary schools with the latest procedures, techniques, and problems in guidance programs. Analysis and discussion of unusual home-room, community, group, and individual guidance problems will be stressed. Clinical guidance procedures, testing, and the principles and methods of interviewing will be presented.

G. Flint Taylor — Tuesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 19, 1967

**F8-155 The Survey of English Language as seen through the English Literature**

Students in this course can increase their understanding of English as a tool of effective communication by a comprehensive overview of English Literature. Lectures, individual and group reports, and representative readings will enrich the students literary culture.

Paul J. Edmunds — Tuesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 19, 1967

**F8-277 School Library Organization and Administration**

A study of the theory and practice of organizing and administering a library of materials and a program of service fundamental to the achievement of educational goals in elementary, Junior high, and Senior high schools will be completed. The function, maintenance, control, planning, and equipping of a school library will be stressed along with the relationship between the librarian, the school administration, and the instructional program.

William D. Joyce — Tuesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 19, 1967

### F8-481 Role of School Adjustment Counselors

This course will concern itself with the duties of School Adjustment Counsellors; preparation for the work; and the administration of the program on a State and local level. Emphasis will be placed on the significant values of the program for detecting and helping children whose maladjustment prevents them from profiting within their capacity from the school experience and which, if allowed to worsen as the years go on, will develop into serious school and community problems. F8-481 is co-sponsored by the Massachusetts Division of Youth Services.

John D. Coughlan — Tuesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 19, 1967

### F8-952 Biological Sciences for the Educator (Pre-Tissue Biology)

This course will consider the phenomena of life primarily at the molecular-cellular (pre-tissue) level. It will be directed towards expanding the backgrounds of those who have had a minimum of or no formal training in the biological sciences. Certain basic questions concerning the nature, dynamics, and continuity of life (including special areas as viruses, cancer, heredity, molecular biology, etc.) will be posed; and by means of lectures and/or demonstrations, answers and modern interpretations to these questions will be offered.

Paul A. Holle — Tuesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 19, 1967

### F9-58 Diagnosis of Reading Difficulties

Graduate students in this techniques of diagnosis course, will intensively study methods and materials for diagnosing reading disabilities. Both remedial and corrective cases will be studied. Standardized and informal teacher made tests will be used. Prerequisite: The Teaching of Reading or permission of the instructor.

Peter Trainor — Wednesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 20, 1967

### F9-78 Workshop in Adult Basic Education

Registrants in this workshop cosponsored by the Mass. Division of Civic Education, must present nominating letters from their Superintendents of Schools. Certificates, awarded upon the successful completion of this highly specialized workshop are required of all teachers in Americanization and Adult Basic Education classes.

Raymond Morrow — Wednesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-490 Diplomatic History of United States 1900-date

In this course, students will investigate the most significant problems, that the policy-makers in the State Department have faced in the past 60 years. Included will be coexistence, the power equilibrium in the Far East, the implementation of the United Nations and regional groups, foreign economic policy, control of atomic energy, nationalism in the Near East, the Far East, and Africa, public opinion and domestic politics as factors in foreign policy.

Francis L. Jones — Wednesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 20, 1967

### F9-752 Advanced Educational Psychology — Section B

In this course, class-members will study and evaluate the role of those environmental, mental and extra-mental forces which motivate all learners to utilize fully and effectively their capacities, aptitudes and attitudes. It includes a systematic analysis of the major schools of psychology with special attention focussed on the contemporary schools. Attention is given to the teachers' role in the learning process and special emphasis will be centered on the application of these principles to specific classroom situations.

Prerequisite: 9 sem. hrs. undergraduate credit in General Psychology and Educational Psychology or their equivalency.

Joseph A. Shea — Wednesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 20, 1967

### F8-860 Astronomy in the Space Age

Through lectures, discussions, and demonstrations the students become familiar with the solar system, planetary and stellar motions, the physical characteristics of stars, the galaxies, our calendar, astronomical time and calculations, cosmogony, and space travel speculations.

Harold L. Chapman — Wednesday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 20, 1967

### F9-52 Research in Education, Section B

This course will stress the use of appropriate research methods in the selection and evaluation of data. It is designed to aid the graduate student in the preparation and understanding of research reports. Major areas of emphasis will include the nature of and criteria for evaluating research, library techniques and resources, selection and documentation, organization and format of a report, and necessary statistical concepts and methods of research. The student will be expected to demonstrate his knowledge of these in a term research study.

Prerequisite: A Bachelor's degree from an accredited college.

Walter Busam — Thursday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 21, 1967

### F9-81 Teaching Enriched Language Arts Units in Elementary Grades

Concentration will be upon those areas of the language program which call for a creative response from the pupils; namely; poetry, creative writing, reporting, and vocabulary building. Other areas would be included as the need arises. Motivation and planning using music, marionettes and puppets, tapes, and other innovative means will be demonstrated.

Paul F. O'Neil — Thursday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 21, 1967

### F9-88 Organization and Administration of Elementary Schools (School Administration 11)

This course will emphasize the many facets of elementary school administration and organization. The role of the principal as an administrator in the larger setting of present day education will be stressed. Specifically, the course will deal with the principal's role in organizing for teaching and learning, administering pupil personnel and special services, and integrating school and community life.

George T. Joseph — Thursday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 21, 1967

### F8-250 History and Literature of Music

This course is designed to encourage greater enjoyment of music through understanding and discrimination. It is directed toward those who have had some or no formal training, but who wish to broaden their background in this area. Although not a methods course, these materials should be useful professionally to both prospective and in-service teachers.

Abram Kaminsky — Thursday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 21, 1967

### F8-653 The History of "Stuart" Ireland

Attention will be focused on the cultural and political conflict in Ireland after the completion of the English conquest, 1603-1715. Emphasis will be placed on the roles of Strafford, Cromwell, and William III, local institutions, social structure, economic, and social changes on 17th century Ireland.

Cheng Yuan — Thursday, 7:00-9:45 p.m.
3 Semester hours — Beginning September 21, 1967

## PRELIMINARY REGISTRATION BLANK

Registration blanks should be forwarded immediately accompanied by a check or money order payable to the State College at Worcester. No class places will be reserved without the accompanying registration and tuition fees. Registration in person should be done in S-112, September 11 thru 15, 1967.

Clip and mail to:

MR. CORNELIUS S. DONOGHUE, Director
Program of Continuing Studies
State College at Worcester
Worcester, Massachusetts 01602

or

MR. JOHN F. EAGER, Associate Director
Program of Continuing Studies
State College at Worcester
Worcester, Massachusetts 01602

**COURSE** **CREDITS (check)**

.....B.S.E. ( ) M. Ed. ( ) OTHER ( )

.....B.S.E. ( ) M. Ed. ( ) OTHER ( )

.....B.S.E. ( ) M. Ed. ( ) OTHER ( )

Name .....

Street .....

City or Town .....

Veteran? .....